Your challenge this season is to explore the cutting-edge world of Biomedical Engineering to discover **innovative ways** to:

* **repair injuries**;
* **overcome illnesses and disabilities**; and
* **build healthier, stronger bodies**

Once you know how scientists, engineers, and doctors work together to find solutions, do some research.

**What kinds of problems keep people from leading happy and healthy lives?**

* Create a list of your body parts, functions (like hearing or breathing), or systems (like circulation with the heart, veins, arteries, capillaries, and blood all working together).
* List what could go wrong with each one,
* What are ways to **protect** that part, system, or function?
* What are ways to **repair** that part, system, or function?
* What are ways to make that part, function, or system **stronger**?

**How could your team help solve one of those problems?**

**Pick one body part, function or system and learn more about it! Find answers to the questions below.**

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**Look at reports.**

**Read books and magazines.**

**Browse Web sites.**

**Conduct a survey.**

**Check with experts who work in and around your community.**

**Use any research tools you have available.**

**Be prepared to share your information sources.**

1. ***How does \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ work with other body parts, functions, or systems to keep you healthy?***
2. ***What dangers does it face?***
3. ***What kinds of scientists, doctors, and engineers are studying that part, function, or system?***
4. ***Find out about one of the people who is working to make your team’s body part, function, or system stronger and healthier, to fix it when it’s injured, or to heal it when it’s sick.***
5. ***Search out the problems and choose one to solve.***

**Share with Others**

Tell others about the problem you researched, and exactly how your solution can help. You choose how to share what you’ve learned. Here are some ideas for sharing.

* Give a talk for parents.
* Create a website.
* Perform a skit.
* Make a comic book.
* Rap.
* Create a poster.
* Pass out flyers.
* Write a poem, song, or story.
* Present your research and solution to lawmakers, doctors, engineers, or groups who already help with your problem.

**Your presentation can be simple or elaborate, serious or designed to make peoplelaugh while they learn. Your ideas can change the world!**